



IC-U16 MICROPROCESSOR CONTROLLED 16 CHANNEL UHF PORTABLE



IC-U16 FRONT PANEL

**RX/TX
INDICATOR**

**FUNCTION
KEY**

To select secondary
function of each key.

**MONITOR
SWITCH**

Deactivates CTCSS
decoder for checking
channel activity.

**PUSH-TO-TALK
(PTT) SWITCH**

For transmitting.

* DECREASES the
operating channel
number.

TONE INDICATOR
Shows CTCSS encoder
decoder is on.

CALL Appears when
a signal is received and
is properly decoded.

LOCK Locks the key-
board electronically.

DISPLAYS the channels to
be scanned.

PRIORITY Assigns
priority to your most
important channel.

INCREASES the opera-
ting channel number.

ICOM IC-U16 PORTABLE

The revolutionary ICOM IC-U16 UHF synthesized portable is a trendsetter in microcircuit technology. Utilizing an on-board microcomputer, the IC-U16 has the maximum number of features. In addition, the IC-U16 gives uncompromising performance and reliability that no other UHF portable can compare with.

Frequency Range. The IC-U16 is available in two ranges, 450-490MHz or 480-512MHz.

16 Synthesized Channels. Incorporating a unique data entry system, the IC-U16 can be programmed and will store up to 16 channels in memory. Each channel will store the offset frequency, transmit CTCSS tone and receive CTCSS tone. Because it is synthesized, there is never any

need to purchase costly crystals for channel changes.

Rugged Construction.

Constructed of an all-metal chassis, stainless steel battery slide rails, reinforced die-cast aluminum back as well as moisture and dust resistant seals, the IC-U16 is built to stand up to the most demanding environments.

High Output Power.

The IC-U16 provides a full 2.5 watts of output, or 5.0 watts of output with the IC-CM7 battery pack.

Scanning. The IC-U16 can scan all programmed channels and will stop on received signals. Specific channels which you may not wish to scan can be deleted from the scanning sequence. Additionally, one channel can be given priority status and signals

received on this channel will be monitored regardless of other busy channels. The priority channel is user selectable.

LCD Readout. The multi-function, easy-to-read liquid crystal display indicates

the channel number and channel scanning sequence in addition to Tx, Rx, tone, lock and call annunciators. A back-light is provided for viewing the display in low light conditions.

Cloning Capability.

Once the IC-U16 is programmed, data can be instantly transferred to a fleet of similar units or to the IC-U400 synthesized mobile, by utilizing an option cable connected to the mic plug.



IC-U16



IC-U400
16 Channel Mobile / 35 Watts

IC-U16 TOP PANEL



THE UHF TRENDSETTER

CTCSS Encoder/Decoder.

Up to 32 independent transmit and receive CTCSS tones can be programmed into the 16 memories allowing maximum flexibility for use on many repeater systems.

Slide-On Battery Packs.

The IC-U16 portable is convenient to use. Slide-on battery packs simply lock into place. Battery packs may be recharged externally providing continuous portable operation. Or the IC-U16 may be operated from a 12V vehicle battery by using the optional IC-CM1 cigarette lighter cord which trickle-charges the IC-CM8 battery pack simultaneously.



Ready To Go.

The IC-U16 comes ready to operate and includes a long life 800mAh IC-CM8 battery pack, CM-16U wall charger, flexible antenna, belt clip and ear-phone.

Optional Accessories.

ICOM offers a variety of options and accessories to meet your specific communications requirements.

ICOM...First in Communications. ICOM's commitment to research and development, quality control and to its customers has made it First in Communications... backed up with 20 twenty years of experience in solid-state communications equipment.

The ICOM name is respected worldwide for its technological leadership in



ICOM America, Inc., Corporate Headquarters, Bellevue, Washington

the marine, avionics and amateur radio industries. ICOM is a name that says excellence and quality that you can depend on...because we know how important reliable communications are.

Contact ICOM at (206) 454-8155 for additional information about the ICOM IC-U16 portable and other land mobile products. Or see the IC-U16 at your local authorized ICOM dealer.

ICOM PORTABLE ACCESSORIES



IC-CM1 Cigarette Lighter Cord

Plugs into lighter socket to charge IC-CM8.

IC-CM9 Speaker/Microphone

Plugs into transceiver and clips on lapel or pocket. Has PTT button.

CM-16U Wall Charger

Charges IC-CM7 and IC-CM8 pack only. Comes standard with the IC-UI6.

CM-35 Drop-In Charger

Charges all ICOM battery packs. Charges IC-CM2 in 1.5 hours, IC-CM3 in 15 hours, IC-CM5 in 1.5 hours and the IC-CM7 and IC-CM8 in 2.5 hours.

CM-60 Multi-Charger

Six position charger - charges all ICOM battery packs.

HS-10 Headset

With Boom mic. (Requires HS-10SA or HS-10SB).

HS-10SA VOX Unit

To be used with HS-10, for IC-UI6 only.

HS-10SB PTT Switchbox

To be used with HS-10.

LC-14 Soft Leather Case

LC-UI6/8 Leather Case

High quality case to protect your transceiver.

Battery Packs

A variety of battery packs are available to meet your operating requirements including the IC-CM7 five watt battery pack.

SPECIFICATIONS

GENERAL

Frequency Range	UI6 Low 450-490MHz: UI6 High 480-512MHz
Number of Channels	16 channels programmable from front panel keyboard. Operation simplex, semi-duplex
Usable Temperature	-30°C to 60°C (-4°F to 140°F)
Antenna Impedance	50 ohms unbalanced
Microphone	Built-in electret condenser microphone
Dimensions	7.7"H x 2.5"W x 1.5"D
Weight	1.1 lbs.
Channel Spacing	12.5KHz
Current Drain	
Standby	65mA (35mA with power saver)
Receive	160mA
Transmit	1150mA
Compliance	Parts 15, 22, 90, 95
FCC Type Acceptance Number	AFJ9XU IC-UI6

RECEIVER

Sensitivity	20dB quieting - better than 0.5µV; 12dB SINAD - better than 0.4µV
Squelch Sensitivity	Threshold - less than 0.4µV
Modulation Acceptance	16F3
Selectivity	70dB min.
Spurious & Image Rejection	70dB
Intermodulation	65dB
Audio Power Output	Min. 400mW @ 10% distortion
Frequency Stability	0.0005%
Channel Spread	40MHz

TRANSMITTER

RF Power Output	2.5 watts with IC-CM8 battery pack, 5.0 watts with optional IC-CM7
Spurious & Harmonic Emissions	70dB
Frequency Stability	±0.0005% (-30°C to 60°C)
Modulation System	Variable reactance frequency modulation
Audio Distortion	Less than 5%
Channel Spread	40MHz

All specifications are approximate and subject to change without notice or obligation. All ICOM radios significantly exceed FCC regulations limiting spurious emissions. UI6885



ICOM INCORPORATED
I-6-19: Kamikurazukuri
Hirano-ku, Osaka, Japan
Phone: (06) 793-5301
Telex: ICOM TR J63649

ICOM AMERICA, INC.
2380 116th Avenue N.E.
Bellevue, WA 98004
Phone: (206) 454-8155
Telex: 230-152210 ICOM AMER BVUE
3331 Towerwood Dr., Suite 307
Dallas, Texas 75234
Phone: (214) 620-2780
Telex: 230-730901 ICOM AMER DAL
1777 Phoenix Parkway, Suite 201
Atlanta, Georgia 30349
Phone: (404) 991-6166

ICOM EUROPE G.M.B.H.
Himmelgeister Strass 100
4000 Duesseldorf 1
West Germany
Phone: 0211-346047
Telex: 41-8588082 ICOM D

ICOM CANADA, LTD.
762 S.W. Marine Drive
Vancouver, B.C. Canada
Phone: (604) 321-1833
Telex: 21-454315 DOLLARD VCR

ICOM AUSTRALIA, PTY. Ltd.
7 Duke Street, Windsor 3181
Victoria, Australia
Phone: (03) 529-7582
Telex: 71-35521 ICOM AS

ICOM FRANCE
120 Route de Revel, BP-4063
31029 Toulouse CEDEX, France
Phone: (61) 20 31 49
Telex: 42-521515 ICOM FRA